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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/830,666	07/30/2001	Nico J.M. Rijkhoff	P66606USO	9516	
136	7590 03/26/2004		EXAMINER		
JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W.			OROPEZA, FRANCES P		
SUITE 600	H SIKEEI N.W.		ART UNIT PAPER NUMBER		
WASHINGT	ON, DC 20004		3762 /2		
			DATE MAILED: 03/26/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	—	Application No.	Applicant(a)	
•			Applicant(s)	
Office Action Summary		09/830,666	RIJKHOFF ET AL.	
Office Action Sum	iliai y	Examiner	Art Unit	
The MAIL INC DATE of this		Frances P. Oropeza	3762	
Period for Reply	communication app	ears on the cover sheet w	ith the correspondence address	ı
A SHORTENED STATUTORY P THE MAILING DATE OF THIS C - Extensions of time may be available under to after SIX (6) MONTHS from the mailing date. - If the period for reply specified above is less if NO period for reply is specified above, the Failure to reply within the set or extended period and the property of the pr	communication. the provisions of 37 CFR 1.1. of this communication. than thirty (30) days, a reply maximum statutory period veriod for reply will, by statute are months after the mailing	36(a). In no event, however, may a y within the statutory minimum of thi vill apply and will expire SIX (6) MOI , cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communicati BANDONED (35 U.S.C. § 133).	tion.
Status				
1) Responsive to communica	tion(s) filed on 1/8/0	4 (Amendment).		
2a) ☐ This action is FINAL .		action is non-final.		
<u> </u>	<i>,</i> —		ters, prosecution as to the merits	is
closed in accordance with	the practice under E	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims				
4) Claim(s) <u>22-29 and 40-44</u> 4a) Of the above claim(s) _				
5) Claim(s) is/are allow				
6)⊠ Claim(s) <u>22-29 and 40-44</u>	is/are rejected.			
7) Claim(s) is/are obje	cted to.			
8) Claim(s) are subject	t to restriction and/o	r election requirement.		
Application Papers				
9) The specification is objecte	d to by the Examine	er.		
10)⊠ The drawing(s) filed on <u>08</u>	•		objected to by the Examiner.	
Applicant may not request that	at any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	tion is required if the drawing	g(s) is objected to. See 37 CFR 1.121	1(d).
11)☐ The oath or declaration is o	bjected to by the Ex	caminer. Note the attache	d Office Action or form PTO-152.	,
Priority under 35 U.S.C. § 119	t.)			
12) Acknowledgment is made of a) All b) Some * c) 1. Certified copies of the	lone of:	priority under 35 U.S.C. s have been received.	§ 119(a)-(d) or (f).	
_		s have been received in A	Application No	
<u> </u>	•		received in this National Stage	
•		u (PCT Rule 17.2(a)).		
* See the attached detailed C	ffice action for a list	of the certified copies no	t received.	
Attachment(s)		_		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawir 	n Review (PTO-948)		Summary (PTO-413) (s)/Mail Date	
Information Disclosure Statement(s) (F Paper No(s)/Mail Date			Informal Patent Application (PTO-152)	

DETAILED ACTION

Response to Amendment

1. The Applicant's arguments filed 1/8/04 are convincing, hence the rejection of record is withdrawn and an new rejection established in the subsequent paragraphs.

Claim Rejections - 35 USC § 103

2. Claims 22-29 and 40-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boveja et al. (US 6505074) in view of Glover (US 3662758) and further in view of Wernicke et al. (US 5188104).

Boveja et al. disclose a method for electrical neural stimulation to treat bladder overactivity providing neural stimulation for detrusor inhibition using programmed stimulation (abstract; col. 1 @ 19-23; col. 1 @ 33- col. 2 @ 38; col. 2 @ 45 - col. 3 @ 32; col. 4 @ 25-35; col. 5 @ 4-22; col. 7 @ 49 - col. 8 @ 11; col. 10 @ 5-48; col. 12 @ 13-21). Boveja et al. teach a bladder event (impulses in the mechanoreceptor afferents) can precipitate a full-blown micturition reflex, and the increased activity (electrical pulses) associated with the reflex control of the striated urethral sphincter controls the mitruition process (col. 2 @ 10-21).

As discussed in the previous paragraph of this action, Boveja et al. disclose the claimed invention except for: 1) using detected signals (indicative of a bladder event) to control bladder stimulation to inhibit detrusor contractions of the bladder, and 2) estimating bladder volume and actuating an alert signal when the predetermined threshold for bladder volume has been reached.

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Glover discloses a stimulation apparatus for use with organs and teaches:

- using detected signals (indicative of a bladder event) to control bladder stimulation for the purpose of inhibiting detrusor contractions of the bladder base on the bladder volume, and

estimating bladder volume based on the amplitude and/or timing of signals and actuating an external alert response/ indicator when the threshold has been reached for the purpose of notifying the user of the need for mitruition. (As to the amplitude, Glover teaches monitoring impedance and Wernicke et al. (US 5188104) teach it is well known that amplitude of an impedance signal varies depending on fullness of the organ being monitored (col. 10 @ 33-37)).

It would have been obvious to one having ordinary skill in the art at the time of the invention to have: 1) detected signals (indicative of a bladder event) to control bladder stimulation and 2) estimated bladder volume based on the amplitude and/ or timing of signals and actuating an alert signal when the predetermined threshold for bladder volume is reached in the Boveja et al. system in order to provide more precise indication of the status of the bladder which is being controlled, hence enabling customization of the neural stimulation based on the needs of the particular patient (abstract; figure 2; col. 1 @ 57- col. 2 @ 4; col. 3 @ 16-50; col. 5 @ 36-46).

Statutory Basis

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Fran Oropeza, telephone number is (703) 605-4355. The Examiner can normally be reached on Monday – Friday 9 a.m. to 5 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Angela D. Sykes can be reached on (703) 308-5181. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 for regular communication and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Receptionist, telephone number is (703) 308-0858.

Frances P. Oropeza Patent Examiner Art Unit 3762

BRIAN L. CASLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

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